(9)

BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

DIVISION: BYATARAYANAPURA

SUB DIVISION: KODIGEHALLI

***Name of Work**: Estimate for Improvements to Roads and Drains in Janatha Colony, Hebbal Kempapura in Ward No. 7, Byatarayanapura.*

Job Code:

Estimated Cost: Rs. 25.00 Lakh(s)

BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

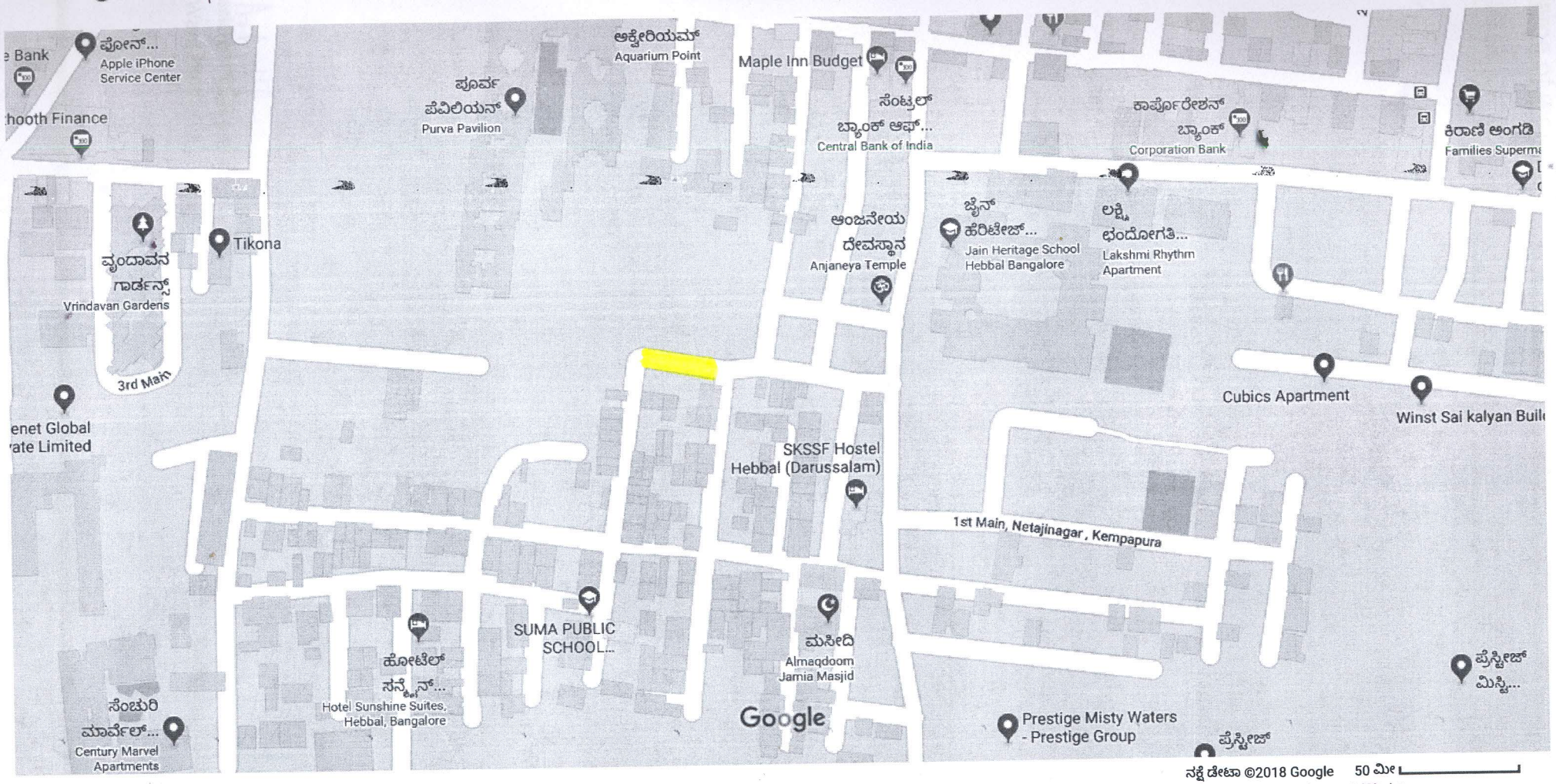
ame of the work: **Estimate for Improvements to Roads and Drains in Janatha Colony, ebbal Kempapura in Ward No. 7, Byatarayanapura.**

							Estimate Cost:	2500000.00
	Description	Unit	No.	L	B	D	Qty	Rate	Amount
	KSRRB M200-24. Dismantling of cement concrete pavement by mechanical means using pneumatic tools, breaking to pieces not exceeding 0.02 cum in volume and stock piling at designated locations and disposal of dismantled materials stacking serviceable and unserviceable materials seperately complete as per specifications. MORTH Specification No. 202 **Page No. 138, Item No. 18.47, PWD SR 2016-17**	Cum							
			1	70.00	5.00	0.20	70.00		
			1	65.00	3.80	0.20	49.40		
			1	55.00	3.90	0.15	32.18		
			1	62.00	4.00	0.20	49.60		
	Basic Rate	781.00					**201.18**	940.30	**189166.00**
	Add loading and unloading Charges **It No 17.1 KSRRB M 100-1**	68.00							
	Average weight of earth 1.28 tonne / kg for 11.90 Km = 1.28 T X 11.90Km X 2.5 Tonne / km = 38.08	38.08							
		887.08							
	Area Weightage @ 6%	53.22							
	Total	**940.30**							
2	KSRRB 300-1. Earth work excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications complete as per specifications MORTH chapter 3. **Page No. 142 / Item No. 19.1 / PWD SR 2016-17**	Cum							
	For UGD Cutting Portion								
			1	70.00	1.50	0.45	47.25		
			1	65.00	1.50	0.45	43.88		
			1	55.00	1.50	0.45	37.13		
			1	62.00	1.50	0.45	41.85		
	For Road Work								
			1	70.00	5.00	0.15	52.50		
			1	65.00	3.80	0.15	37.05		
			1	55.00	3.90	0.15	32.18		
			1	62.00	4.00	0.15	37.20		
	Basic Rate	82.00					**329.03**	199.36	**65596.00**
	Add loading and unloading Charges **It No 17.1 KSRRB M 100-1**	68.00							
	Average weight of earth 1.28 tonne / kg for 11.90 Km = 1.28 T X 11.90Km X 2.5 Tonne / km = 38.08	38.08							
		188.08							

	Description	Unit	No.	L	B	D	Qty	Rate	Amount
	Area Weightage @ 6%	11.28							
	Total	**199.36**							
	KSRRB M300- Construction of Embankment with Material Gravel/ Murrum. KSRRB M300-53. Construction of embankment with approved material Gravel/Murrum with all lifts and leads, transporting to site, spreading, grading to required slope and compacting to meet requirement Table 300- 2 complete as per specifications.(Including cost of gravel / murrum, watering charges & compaction by vibratory roller to 95% of proctors density) MORTH Specification No. 305 **Page No. 148 / Item No. 19.60, PWD SR 2016-17**	cum							
			1	70.00	5.00	0.20	70.00		
			1	65.00	3.80	0.20	49.40		
			1	55.00	3.90	0.20	42.90		
			1	62.00	4.00	0.20	49.60		
	Basic Rate	302.00					**211.90**	320.12	**67833.00**
	Area Weightage @ 6%	18.12							
	Total	**320.12**							
4	KSRRB M400- Wet Mix Macadam KSRRB M400-17. Providing, laying, spreading and compacting crushed stone aggregates of granite / trap / basalt to wet mix macadam specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed method of tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications. MORTH Specification No. 406 **Page No. 158 / Item No. 20.18, PWD SR 2016-17**	Cum							
			1	70.00	1.50	0.25	26.25		
			1	65.00	1.50	0.25	24.38		
			1	55.00	1.50	0.25	20.63		
			1	62.00	1.50	0.25	23.25		
	Basic Rate	1668.00					**94.50**	1768.08	**167084.00**
	Area Weightage @ 6%	100.08							
	Total	**1768.08**							
5	KSRB 4-1.3 : Providing and laying in position plain cement concrete of **mix 1:4:8 with OPC cement @ 180 kgs with 40mm** and down size graded granite metal coarse aggregates @ 0.85cum and fine aggregares @ 0.57 cum machine mixed, concrete laid in layers not, exceeding 15cms, thick, well compacted, in foundation and plinth, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1,4.2. **No. 12 / Item No. 4.3 / PWD SR 2016-17**	Cum							
			1	70.00	5.00	0.15	52.50		
			1	65.00	3.80	0.15	37.05		

Description	Unit	No.	L	B	D	Qty	Rate	Amount
		1	55.00	3.90	0.15	32.18		
		1	62.00	4.00	0.15	37.20		
Basic Rate	4867.00					**158.93**	5159.02	**819897.00**
Area Weightage @ 6%	292.02							
Total	**5159.02**							
KSRB 4-6.4 : Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for **vertical surface such as walls** at any thickness, including attached pilasters, buttresses, plinth and string courses cost of all materials, labour complete as per specifications. Specification NO KBS 4.6.2 **Page No. 15 / Item No. 4.31 / PWD SR 2016-17**	Sqm							
		2	70.00		0.30	126.00		
		2	65.00		0.30	117.00		
		2	55.00		0.30	99.00		
		2	62.00		0.30	111.60		
Basic Rate	293.00					**453.60**	310.58	**140879.00**
Area Weightage @ 6%	17.58							
Total	**310.58**							
Cement concrete pavement.Construction of un-reinforced plain cement concrete pavement, thickness as per design, over a prepared sub base with OPC cement or any other type as per clause 1051.2.2 design mix M20/M30 , with 25mm and down size graded granite metal coarse aggregates and fine aggregtes , with superplastisiser @3lts confirming to IS9103-1999 Reaffirmed-2008 , mixed in a concrete mixer of not less than 0.6 cum capacity and appropriate weigh batcher as per approved mix design, laid in approved fixed side form work (steel channel, laying and fixing of 125 micron thick polythene film, wedges, steel plates including levelling the form work as per drawing). Spreading the concrete with shovels, rackers compacted using needle, screed and plate vibrator and finished in a continuous operation including provision of contraction, expansion, construction and longitudinal joints including groove cutting charges, joint filler, separation membrane, selant primer, joint sealant, admixtures as approved, curing compound, finishing to lines and grades as per drawing complete as per specifications. **- M20 (at 300Kg per cum coarse aggregate @ 0.64cum and fine aggregate @ 0.43cum) Page No. 177 / Item No. 22.6.2 PWD SR 2016-17**	Cum							
		1	70.00	5.00	0.12	42.00		
		1	65.00	3.80	0.12	29.64		
		1	55.00	3.90	0.12	25.74		
		1	62.00	4.00	0.12	29.76		
Basic Rate	5197.00					**127.14**	5508.82	**700391.00**
Area Weightage @ 6%	311.82							
Total	**5508.82**							

Google Improvements of Roads and drains in Jahatha colony,



INDEX:
- Roads proposed for cc road:

Assistant Executive Engineer
Kodigehalli Sub Division
Bruhat Bangalore Mahanagara Palike
Bangalore - 560 092

AE(W)

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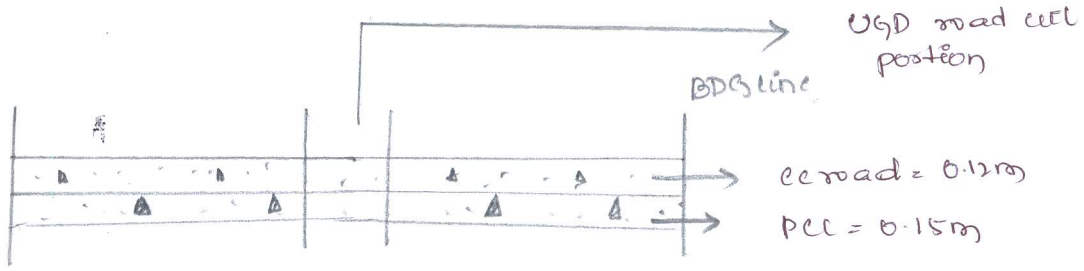
Name of work:- Improvements to roads and drains in Ramathe colony, Hebbal kempapura in ward no,07, byatarayanapura.



CROSS SECTION OF CC-ROAD.

A.E.E. N.D
Assistant Engineer
Ward No.07

Assistant Executive Engineer
Kodigehalli Sub Division, BBMP